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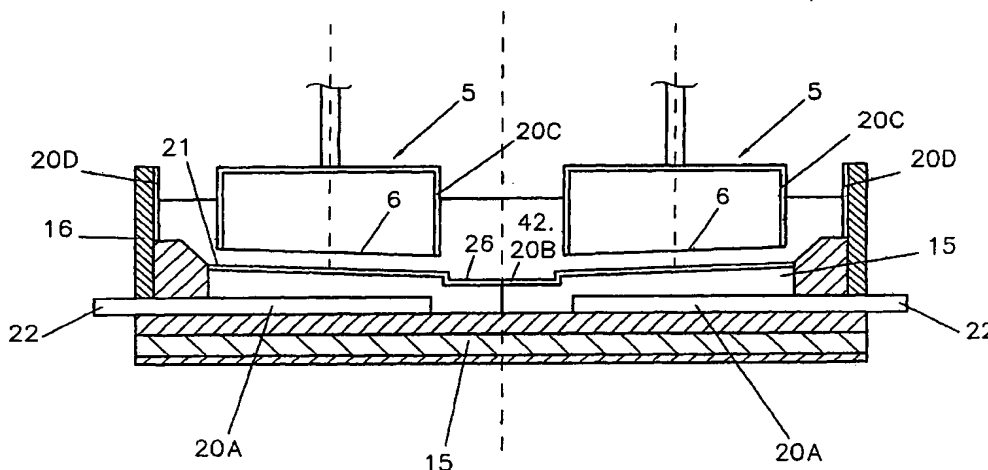
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(54) Title: CERAMIC MATERIAL FOR USE AT ELEVATED TEMPERATURE



(57) Abstract: A ceramic material (20, 20A, 20B, 20C, 20C', 20D, 20E, 20E₁, 20E₂, 20E₃, 20E₄, 20F) comprises a structural mass made of at least one refractory compound selected from refractory borides, aluminides and oxycompounds, and combinations thereof. This structural mass has an open microporosity that is impregnated with colloidal and/or polymeric particles of iron oxide and/or a precursor of iron oxide. These particles promote wetting of the structural mass by molten aluminium and/or form upon heat treatment a sintered barrier against oxygen diffusion through the structural mass. The ceramic material can be used on cathodes (15), carbon or metal-based anodes (5, 5'), sidewalls (16) and other parts (26) of aluminium electrowinning cells, on electrodes (15A) of arc furnaces, and on stirrers (10) or vessels (45) of aluminium purification apparatus.



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